

ACTION ITEMS UPDATE FROM THE 2014 CFFDRS SUMMIT

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Mesowest.org/akff

The screenshot shows the Mesowest.org/akff website. The header is red with the text "Alaska Fire & Fuels" and navigation links: Home, Fire Weather Map, Tabular Products, AKFF API, Downloads, and UU MesoWest. The main content area has a white background. It starts with a welcome message and a description of the site's purpose. Below this, there are two sections: "FWI Database" and "Daily/Forecast Download".

FWI Database

Modelled on the AICC FWI Database page, this interface running off the AKFF API allows the user to view daily and forecast values for observing stations in a sortable, tabular interface.

FFMC	DMC	DC	IS
88.99	9.07	156.02	5
88.92	10.75	160.75	6
86.95	11.86	165.17	4
90.89	19.84	469.55	7
90.94	21.8	474.05	7
90.25	23.6	478.67	5
64.97	4	250.8	1
69.16	4.78	254.87	1
70.1	5.43	258.97	1
89.13	9.2	166.94	1
88.07	10.45	171.01	7
87.42	11.89	175.32	5
91.84	22.94	336.13	6
90	24.43	340.26	8
88.45	25.76	344.54	5
90.07	19.7	337.2	7

Alaska Fire & Fuels Daily/Forecast Download

Download daily and forecast data using the interface below.

Observed/Forecast

Both

Geographic Area

REDapp—Full public release soon

Date and Time

Date

April 1, 2015

Time Zone

AKDT: Alaska Daylight Time (-9:00)

Ignition Location

Latitude

54°

Longitude

-115°

FIND CURRENT LOCATION

Weather

FWI Calculator

FBP Calculator

Spotting Calculator

Map

Statistics

Current Conditions

Province

City

Time of Observation

Temperature °C

Relative Humidity %

Wind Speed km/h

Wind Direction °

TRANSFER TO FWI

Ensemble Forecast

Province

City

Weather Model

☒ GEM

☐ NCEP

☐ Custom

002

12Z

Member IDs

Ensemble Output

☒ 50th Percentile

☐ 75th Percentile

☐ 95th Confidence Interval

Forecast Day

1

☒ Display Time in UTC

EXPORT FORECAST

TRANSFER TO STATS

Date and Time	Temp	RH	Precip	WS	WD
0:00					
6:00					
12:00					
18:00					

TRANSFER TO FWI

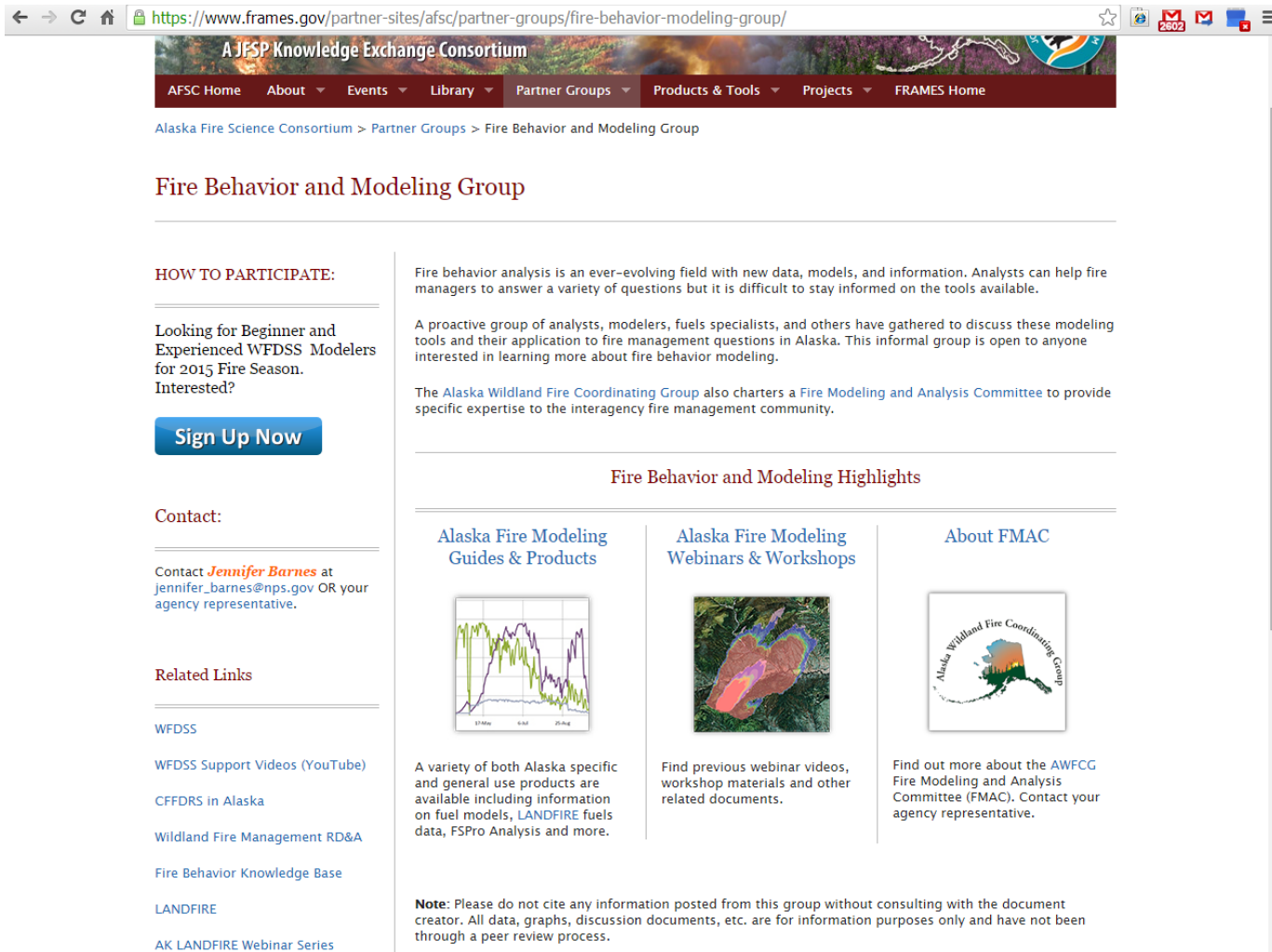
ASSUMPTIONS

SETTINGS

RESET

BUGS AND TECH SUPPORT

AFSC- Fire Modeling And Analysis Committee Page



Modeling Guides and Products

← → ↺ 🏠 <https://www.frames.gov/partner-sites/afsc/partner-groups/fire-behavior-modeling-group/modeling-products-guides/> ☆   

Search AFSC



[Alaska Fire Science Consortium](#) > [Partner Groups](#) > [Fire Behavior and Modeling Group](#) > [Modeling Products & Guides](#)

Alaska Fire Modeling Guides & Products

List of Featured Guides & Products:

 [Summary of CFFDRS Use in Alaska-Dr. Jane Wolken, March 2014](#)

 [Field Guide for CFFDRS Fire Weather Index \(FWI\) System \(updated Feb 2015\)](#)

 [Getting Started in Fire Behavior Modeling](#)

[Fuel Model Guide to Alaska Vegetation](#)

[FSPro Analysis in Alaska: A Users Guide](#)

[Fuel Model Comparison Chart](#)

[Fire Ending Event Workshop](#)

 [Poster: Expanding the Use of Weather Forecast Products for Fire Managment Decision-Makers, by R. Ziel and G. Branson, 2014](#)

 [Field Guide for CFFDRS Fire Behavior Prediction \(FBP\) System \(updated Feb 2015\)](#)

[Alaska Interagency Protocols for Fire Behavior Requests in WFDSS](#)

[LANDFIRE Fuels Data Acquisition, Critique, Modification, Maintenance, and Model Calibration](#)

[Modeling Spot Fires - U.S. Modeling System Comparisons for Practitioners](#)

Grass Fuel Moisture Code and Grass Fuel Moisture %

2.4.1 Grass Fuel Moisture (Review estimates hourly)

Grass Fuel Moisture Code (GFMC), Natural fuel loads and mixed orientations

The GFMC estimates can be used in place of FPMC in the ISI and BISI tables (2.4.6 and 2.4.7) to estimate a Grass Initial Spread Index (GSI). GSI can be used in place of ISI to estimate fire behavior for fuel types O-1a & O-1b. Grass Fuel Moisture % estimate can be obtained by subtracting this GFMC value from 101.

GFMC		Relative Humidity (%)							
SOL _{ref}	Temp	10%	20%	30%	40%	50%	60%	80%	100%
Overcast	41°F	91	88	85	84	83	81	78	68
	50°F	92	89	87	85	84	83	79	69
	59°F	93	90	88	86	85	84	79	69
	68°F	94	91	89	88	86	84	81	71
	77°F	95	93	91	89	87	86	82	72
	86°F	96	94	92	90	89	87	83	72
Broken, Clouds > 50% of sky	41°F	94	91	89	87	86	85	83	81
	50°F	95	92	90	88	87	86	84	82
	59°F	95	93	91	90	88	87	85	83
	68°F	96	94	92	91	89	88	86	84
	77°F	97	95	93	92	91	90	87	84
	86°F	98	96	95	93	92	91	88	85
Scattered Clouds < 50% of sky	41°F	96	93	91	90	89	88	86	84
	50°F	96	94	92	91	90	89	87	86
	59°F	97	95	94	92	91	90	88	87
	68°F	97	96	95	93	92	91	90	88
	77°F	98	97	96	95	94	93	91	89
	86°F	99	98	97	96	95	94	92	90
Clear Skies	41°F	97	95	94	93	92	91	89	88
	50°F	98	96	95	94	93	92	90	89
	59°F	98	97	96	95	94	93	92	90
	68°F	98	97	97	96	95	94	93	91
	77°F	99	98	97	97	96	95	94	92
	86°F	99	99	98	98	97	96	95	94

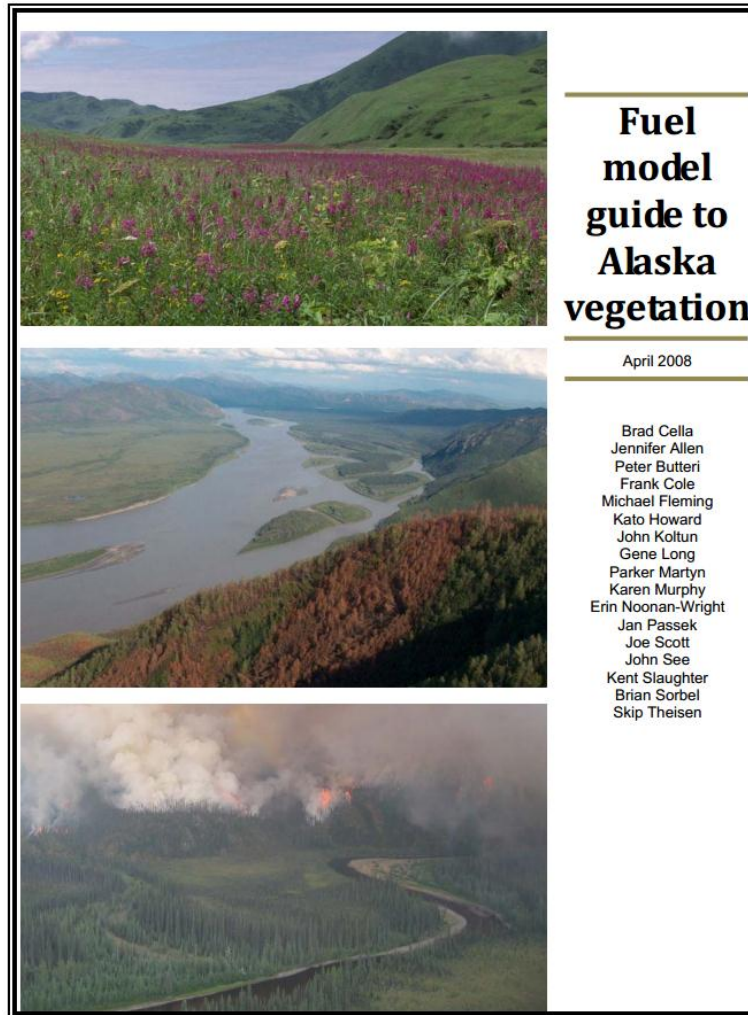
Kidnie, S.K., Wotton, B.M. and Droog, W.N. 2010. Field guide for predicting fire behaviour in Ontario's tallgrass prairie. Elgin County Stewardship Council Special Publication. Ontario Ministry of Natural Resources, Aylmer, Ontario. 65 p.

Grass Fuel Moisture (%), for dead, over-wintered standing dead grass in Alaska

	Relative Humidity (%)																	
Temp	4	8	12	16	20	24	28	32	36	40	44	48	52	56	60	64	68	
30°F	6	7	8	9	10	10	11	12	12	13	14	15	15	16	17	18	19	
40°F	6	7	8	8	9	10	10	11	12	12	13	14	15	15	16	17	18	
50°F	5	6	7	8	8	9	10	10	11	12	12	13	14	15	15	16	18	
60°F	5	6	6	7	8	8	9	10	10	11	12	12	13	14	15	16	17	
70°F	4	5	6	7	7	8	9	9	10	10	11	12	12	13	14	15	16	
80°F	4	5	6	6	7	8	8	9	9	10	11	11	12	13	14	14	16	

From E. Miller, personal communication. Paper pending (January 2015)

Undergoing revision during 2015



National Fuel Moisture Database

← → ↻ 🏠 📄 www.wfas.net/index.php/national-fuel-moisture-database-moisture-drought-103 ⭐ 📶 2588 📧 📧 📧 ☰

USFS - WFAS
Wildland Fire Assessment System

Main Menu

- Home
- News
- Support
- Processing
- Disclaimer
- References
- Quick Links
- Search Archive

Fire Potential / Danger

- Fire Danger Rating
- Lightning Efficiency
- Haines Index
- NDFD Fire Danger
- Forecasts

Weather

- Fire Weather
- Map Data
- Google Earth Map Data

Moisture / Drought

- Dead Fuel Moisture
- AVHRR NDVI
- Keetch-Byram Index
- Palmer Index
- National Fuel Moisture Database

Experimental Products

- Potential Lightning Ignition
- Dry Lightning
- Growing Season Index
- NFDRS Next Day Forecast
- Live Fuel Moisture
- WFAS Map Server
- Western Region
- Climate Center RAWS

External Products

- State and Regional

National Fuel Moisture Database

Alaska NFMD Sample Sites

Fuel Moisture Graphs and Tables

[Back](#) [View All](#)

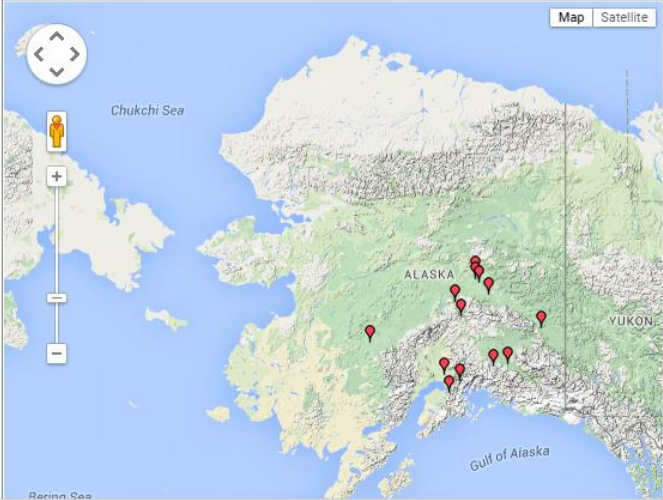
Click Site Name or Marker to View Graphs and Tables

Click Fuel Name to View Sites Sampling the Selected Fuel

📍 Updated 7 or fewer days ago 📍 Updated 8 to 14 days ago 📍 Updated more than 14 days ago 📍 Inactive site - historical data only

- Birch, Resin
- Cottongrass, Tussock
- Crowberry, Black
- Duff (DC)
- Fireweed
- Moss, Dead (DMC)
- Moss, Live (FFMC)
- Reedgrass, Bluejoint
- Sedge, Bigelows
- Spruce, Black
- Spruce, White
- Tea, Labrador

Map | Satellite



- Anchorage-Campbell Tract
- Bears Den
- CR Gulkana
- CR Mendeltna
- Denali-DVC
- Fairbanks-Ballaine
- Harding Lake
- Holmes Rd
- McGrath
- MSS Burnt Butte
- Rex Bridge
- Tok
- Willow

Interagency Fuels Treatment Decision Support System (IFTDSS)

The screenshot shows the IFTDSS 2.0 beta website. The header includes the logo "IFTDSS 2.0 beta" and the tagline "The Interagency Fuels Treatment Decision Support System". On the right, there is a logo for "Wildland Fire Management Research, Development & Application" with the subtitle "Integrating Science, Technology and Fire Management".

The main content area is divided into two columns. The left column features a "Welcome to IFTDSS" section with a description: "The Interagency Fuels Treatment Decision Support System. IFTDSS is a web-based software and data integration framework that organizes previously existing and newly developed fire and fuels software applications to make fuels treatment planning and analysis more efficient and effective." Below this are three icons with labels: "Request an Account" (a document icon), "Online Help" (a blue folder icon with a red question mark), and "Submit Feedback" (a red speech bubble icon).

The right column features a "Sign In" section with a "Username" input field, a "Password" input field, and a green "Go" button. Below the sign-in fields, a message states: "IFTDSS will remain in a Beta Development phase until 2017. So come on...get your hands dirty, provide some feedback and see what IFTDSS can do for YOU!"

Below the main content area, there are three sections: "IFTDSS Can Help You..." with three icons and labels: "Develop a Burn Plan" (a blue folder icon with a red question mark), "Conduct a Risk Assessment" (a red triangle icon with a white exclamation mark), and "Model Fire Behavior" (a fire icon); "Learn More" with a video player showing a forest fire and the text "Interagency Fuels Treatment Decision Support System"; and "What's New in 2.0.1" with a list of updates: "Shapefile Upload and Download", "LANDFIRE 2010", "Improved Mapping Tools", "2014 Interagency Burn Plan Template", and "Landscape file download".

The footer is a green bar with three quotes: "IFTDSS didn't reinvent any of the fire", "IFTDSS is organized around workflows", and "IFTDSS allows for improving the".

Intro to CFFDRS class next week in Fairbanks and Soldotna

CAN491 - Introduction to Canadian Forest Fire Danger Rating System (CFFDRS) <i>No Course Description available</i> Session Details		04-09-2015 to 04-10-2015	Alaska Fairbanks, AK 99701	Nom Form Due: 03-09-2015 <div> <input type="checkbox"/> Late Noms <input type="checkbox"/> Accepted </div> Nom Form	Cindy Forrest-Elkins cindy . forrest at alaska . gov Phone: 907-269-8441 Fax: 907-269-8921	(None)
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Questions?

Discussion?

2013 Can Creek Fire Photo: Zachary
Jacobson, Pioneer Peak Hotshots